

CULTURAL RESOURCES SURVEY OF THE RELOCATED SIDNEY 115kV PROJECT, COLLETON COUNTY, SOUTH CAROLINA

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ABSTRACT

This report provides the results of a cultural resources investigation of a 4.0 mile transmission line and substation situated in the central portion of Colleton County. Two areas, station 140+14 to 153+48 and 200+39 to 215+77, have been relocated since the original study in September (see Trinkley and Southerland 2003). The study was conducted by Dr. Michael Trinkley of Chicora Foundation for Mr. Tommy Jackson of Central Electric Power Cooperative and is intended to assist this client comply with Section 106 of the National Historic Preservation Act and the regulations codified in 36CFR800.

The corridor is to be used by Central Electric Power Cooperative for the construction of the Sidney transmission line and associated substation. The proposed corridor will start near a proposed Sidney substation site and run west, intersecting an existing transmission line.

The proposed route will require the clearing of the corridor, followed by construction of the proposed transmission line and substation. These activities have the potential to affect archaeological and historical sites which may be in the project corridor. For this study an area of potential effect (APE) 0.5 mile around the proposed transmission line was assumed.

Consultation with the S.C. Department of Archives and History revealed three previously identified sites within the 0.5 mile APE which were recorded between 1992 and 1995 during a county-wide historical and architectural survey (The Jaeger Company 1995; Chandler 1995). Site 437-135 is a ca. 1910 building, site 536-541 is a ca. 1900 house, and site 536-542 is a ca. 1860 house. All sites have been determined not eligible for the National Register of Historic Places.

An investigation of the archaeological site

files at the S.C. Institute of Archaeology and Anthropology identified one previously recorded site, 38CN215, within the APE. The site is a small surface scatter of Middle Woodland sherds. The site was recommended not eligible (see Trinkley 1999). In addition, the original corridor survey uncovered three archaeological sites, 38CN241-243. Site 38CN241 is an Early to Middle Woodland surface and subsurface scatter that extended beyond the boundaries of the corridor and so was considered potentially eligible by the State Historic Preservation Office (letter dated October 22, 2003). Sites 38CN242 and 243 also consisted of Early to Middle Woodland artifacts but were determined not eligible for the National Register (letter dated October 22, 2003).

The archaeological study of the corridor incorporated shovel testing at 100-foot intervals along the center line of the proposed corridor, which had been cut and staked at the time of this investigation. All shovel test fill was screened through ¼-inch mesh and the shovel tests were backfilled at the completion of the study. A total of 220 shovel tests were excavated in the survey corridor.

Three archaeological sites (38CN241-243) were identified as a result of these investigations. All three sites consist of Early to Middle Woodland artifacts while 38CN241 also contains a Late Archaic component. Site 38CN241 is recommended not eligible for the National Register while sites 38CN242 and 38CN243 have already been determined not eligible for the National Register.

A survey of public roads within 0.5 mile of the survey area was conducted in an effort to identify any architectural sites over 50 years old which also retained their integrity. No additional structures beyond those previously recorded by

the 1992-1995 survey (Chandler 1995) were found. Site 437-135 was not found in the field and no site form was found either. Site 536-541 is no longer standing, but the rubble of the structure was still evident. Site 536-542 appears to be in slightly worse condition than in 1993, with the roof falling apart. This structure is still recommended not eligible for the National Register.

It is possible that archaeological remains may be encountered in the project area during construction. Construction crews should be advised to report any discoveries of concentrations of artifacts (such as bottles, ceramics, or projectile points) or brick rubble to the project engineer, who should in turn report the material to the State Historic Preservation Office or to Chicora Foundation (the process of dealing with late discoveries is discussed in 36CFR800.13(b)(3)). No construction should take place in the vicinity of these late discoveries until they have been examined by an archaeologist and, if necessary, have been processed according to 36CFR800.13(b)(3).

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INTRODUCTION

This investigation was conducted by Dr. Michael Trinkley of Chicora Foundation, Inc. for Mr. Tommy Jackson of the Central Electric Power Cooperative. The work was conducted to assist Central Electric Power Cooperative comply with Section 106 of the National Historic Preservation Act and the regulations codified in 36CFR800.

The project site consists of a 4.0 mile corridor proposed to be used for a transmission line and substation in central Colleton County (Figure 1). The corridor starts at a proposed substation and runs west, connecting to an existing transmission line (Figure 2).

The corridor consists of low flat areas of wetlands, higher areas of pines and hardwoods, and open fields. The surrounding area still remains rural although the city of Walterboro is just southwest of the project.

The corridor, as previously mentioned, is intended to be used as a transmission route. The proposed width of the corridor is 75 feet. The substation lot, situated at the eastern terminus of the line, incorporates about 1.0 acre. Landscape alteration, primarily clearing, as well as subsequent erection of the wood poles, will cause some damage to the ground surface and any archaeological resources that may be present in the survey area.

Construction, operation, and maintenance of the transmission line and substation may also have an impact on historic resources in the project area. Powerline corridors (as well as other above grade projects) may detract from the visual integrity of historic properties, creating what many consider discordant surroundings. Because of the small size of the poles to be used (80 feet or less in height), this impact is anticipated to be modest. Nevertheless, this architectural survey

uses an area of potential effect (APE) about 0.5 mile around the proposed line.

This study, however, does not consider any future secondary impact of the project, including increased or expanded development of this portion of Colleton County.

We were requested by Mr. Tommy Jackson of Central Electric Power Cooperative to conduct a cultural resources survey for the proposed transmission line on August 13, 2003. This incorporated a review of the site files at the South Carolina Institute of Archaeology and Anthropology. As a result of that work, one site, 38CN215, was found within the APE. This site is a Middle Woodland surface scatter and was recommended not eligible for the National Register (see Trinkley 1999). In addition, the original corridor survey (Trinkley and Southerland 2003) uncovered three archaeological sites, 38CN241-243. Site 38CN241 is a Late Archaic to Middle Woodland surface and subsurface scatter that extended beyond the boundaries of the corridor and so was considered potentially eligible by the State Historic Preservation Office (letter dated October 22, 2003). Sites 38CN242 and 243 also consisted of Early to Middle Woodland artifacts but were determined not eligible for the National Register (letter dated October 22, 2003).

The South Carolina Department of Archives and History GIS was consulted to check for any NRHP buildings, districts, structures, sites, or objects in the study area. No NRHP sites were found within the 0.5 mile APE, however, three architectural resources (437-135, 536-541, and 536-542) were located nearby. These sites were recorded by the Jaeger Company between 1992 and 1995 (The Jaeger Company 1995). Site 437-135 is a ca. 1910 building, site 536-541 is a ca.

CULTURAL RESOURCES SURVEY OF THE RELOCATED SIDNEY 115kV PROJECT

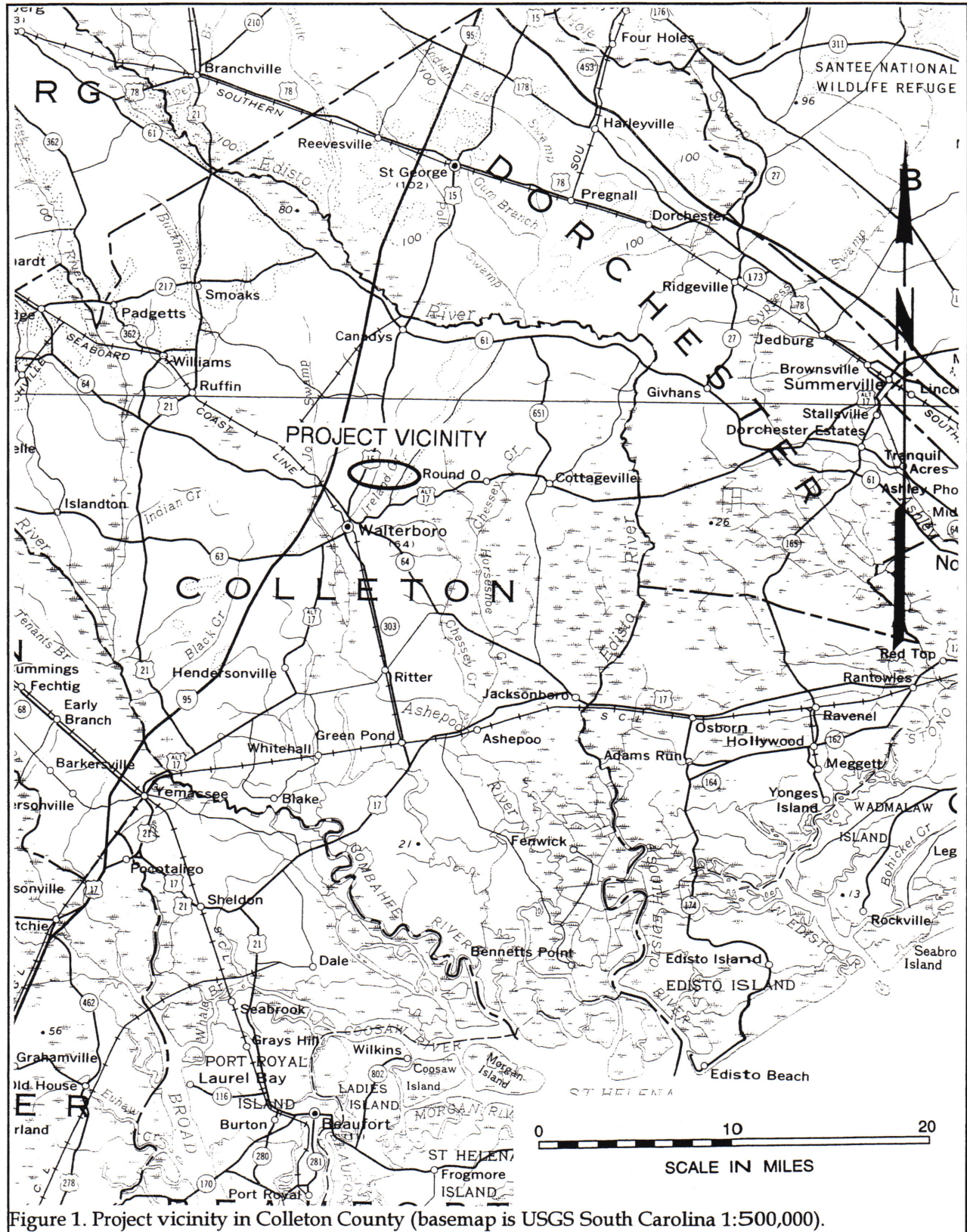
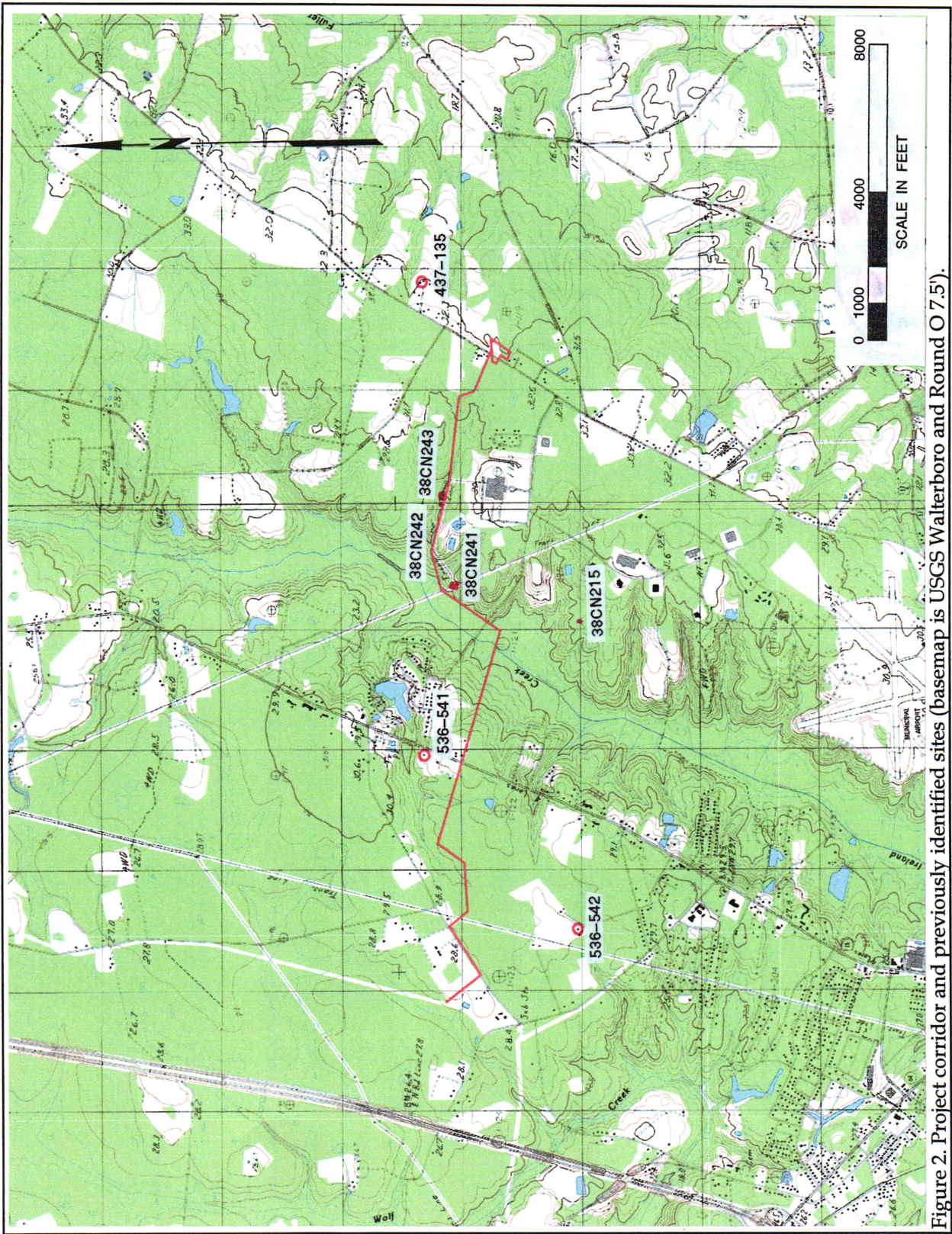


Figure 1. Project vicinity in Colleton County (basemap is USGS South Carolina 1:500,000).

INTRODUCTION



1900 house, and site 536-542 is a ca. 1860 house. All sites have been determined not eligible for the National Register of Historic Places.

Archival and historical research was limited to a review of secondary sources available in the Chicora Foundation files.

The archaeological survey was conducted from September 15-19 by Mr. Tom Covington, with an additional survey of the relocated areas 140+14 to 153+48 and 200+39 to 215+77 conducted from November 18-19, 2003, under the direction of Dr. Michael Trinkley and revealed three archaeological sites, 38CN241-243. As a result of this most recent work, 38CN241 is recommended not eligible while 38CN242 and 38CN243 have been previously determined not eligible for the National Register. Report production was conducted at Chicora's laboratories in Columbia, South Carolina from September 26-30, 2003 and from November 24-25, 2003.

Three archaeological site forms, one for each site in this study, have been previously filed with the South Carolina Institute of Archaeology and Anthropology (SCIAA). An update of 38CN241 has been filed, reflecting this additional testing. The field notes, artifact catalogs, and artifacts resulting from these investigations will be curated at SCIAA using their accessioning and cataloging system once the project is complete. All records and duplicate copies will be provided to SCIAA and will be maintained by that institution in perpetuity. The only photographic materials associated with this project are color prints, which are not archival. The negatives and prints for these photographs are retained by Chicora Foundation.

NATURAL SETTING

Physiographic Setting

Colleton County is situated in the lower Atlantic Coastal Plain of South Carolina. Containing about 1,048 square miles (excluding annexed Edisto Beach), it is bordered by Charleston, Dorchester, Orangeburg, Bamberg, Allendale, and Hampton counties to the north, east, and west. It is bounded on the south and east by approximately 4 miles of irregular Atlantic Ocean shoreline, as well as a number of barrier and marsh islands.

The topography of the county is characterized by subtle undulation characteristic of beach ridge plains. The elevations range from sea level to approximately 125 feet above mean sea level (AMSL). The survey corridor stays relatively level at about 30 feet AMSL, except closer to the creek when the elevation can go down to 15 feet AMSL.

Colleton is drained by three significant river systems: the Edisto (historically the upper reaches have been known as Pon Pon River), the Ashepoo, and the Combahee-Salkahatchie. All three rivers have significant freshwater discharge although the Ashepoo is dominated by salt water as far upriver as Lavington Plantation (about 19 miles inland) and the point of

maximum brackish water penetration is in the vicinity of the Ashepoo community. The Combahee River forms the southwestern boundary of the county while the Edisto forms part of the northern boundary. The Ashepoo River bisects Colleton County, flowing just west of the City of Walterboro. It is into the Ashepoo that Johnno Creek flows after draining much of the area south of Walterboro.

Both Johnno and Pringle creeks are classified as broad, low-gradient interior drainages. They are typical of the flooded bays and swales which make up much of the low country's flatwoods topography.

Geology and Soils

As previously mentioned, Colleton



Figure 3. View of pines and hardwoods along the corridor.

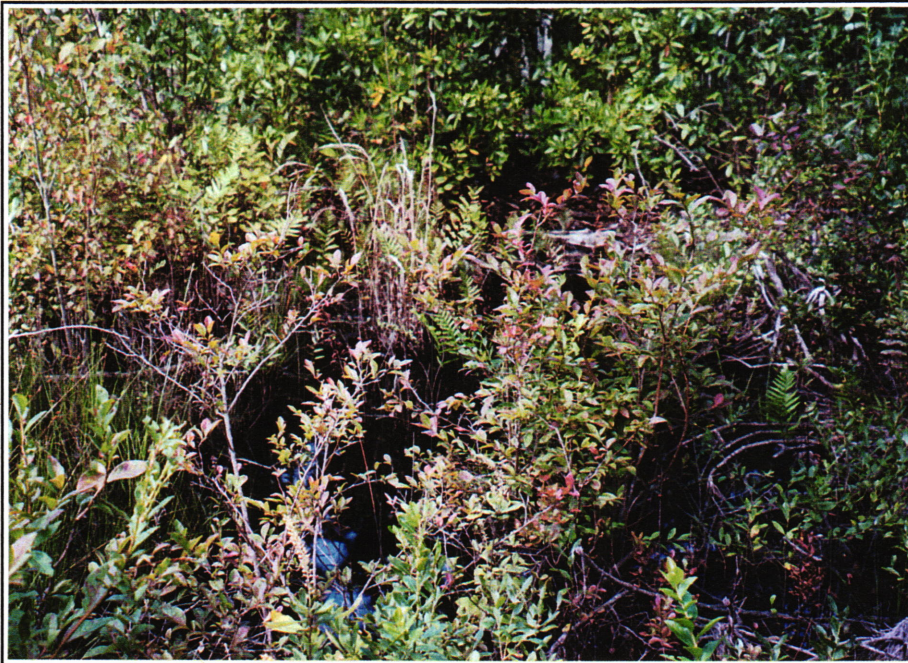


Figure 4. View of wetland along the corridor.

County is made up of one broad physiographic area, often called the lower Atlantic Coastal Plain or the Atlantic Coast Flatwoods. The surface soils are almost entirely sedimentary and were transported into the area from elsewhere. The geology of Colleton County is characteristic of the region; the formations covering the surface date from the Pleistocene and include sands, clays, gravels, and phosphates.

Much of the county is covered with broad areas of nearly level to gently sloping loamy to clayey soils. On the flood plains these soils are usually subjected to at least occasional, and often frequent, flooding. Many exhibit wet season high water tables — often within a foot of the surface. Major soil series include Bladen, Argent, Wahee, Santee, and Cape Fear. Just southeast of Walterboro the soils become a little lighter, and are characterized by loamy profiles. Typical soil series include Goldsboro, Lynchburg, Rains, and Coosaw. Although many of these soils have water tables 2 or more feet below the surface, the Rains and Coosaw soils are still likely to be wet during much of the year. At Walterboro there is a band of primarily sandy soils crossing the county from

southwest to northeast. Included are such series as Blanton, Chipley, and Lakeland — all exhibiting good to excessive drainage (Stuck 1982).

The survey corridor had seven different soil types present. Three of these soils (Leon sands, Pickney loamy sands, and Lynn Haven fine sands) occurred in the wet and low areas and are poorly to very poorly drained.

Leon sands have an A1 horizon of black (10YR2/1) sand to a depth of 0.5 foot over a light brownish gray (10YR6/2) sand to a depth of 1.6 feet. Pickney soils are black (10YR2/1) loamy sand over 1.0 foot in depth. The Lynn Haven Series consists of a horizon of black (10YR2/1) fine sand to a depth of 0.8 foot over a gray (10YR6/1) fine sand to a depth of 1.5 feet.

The remaining soils (Echaw loamy fine sands, Chipley fine sands, Alpine fine sands, and Bonneau fine sands) are moderately to well drained soils that occur in the higher areas.

The Echaw Series has a three inch surface layer of very dark gray (10YR3/1) loamy fine sand over a dark grayish brown (10YR4/2) loamy fine sand to 0.8 foot in depth. The subsoil is a brownish yellow (10YR6/6) loamy fine sand to 2.3 feet in depth. Chipley soils have an A1 horizon of dark grayish brown (10YR4/2) fine sand to a depth of 0.5 foot over a brownish yellow (10YR6/6) fine sand to a depth of 1.6 feet. Alpine soils have an Ap horizon of grayish brown (10YR5/2) fine sand to a depth of 0.5 foot over a light yellowish brown (10YR6/4) fine sand to 2.3 feet in depth. Bonneau soils have an Ap horizon

of dark grayish brown (10YR4/2) fine sand to a depth of 0.4 foot over a light yellowish brown (2.5Y6/4) fine sand to a depth of 1.1 foot.

Climate

Colleton County has a subtropical climate, characterized by warm summers, mild winters, and adequate precipitation fairly evenly spread throughout the year. Except in the summer, when maritime tropical air controls the climate of the area, the daily weather patterns are controlled by west to east moving pressure systems and associated fronts.

Yearly precipitation averages 52 inches, but ranges from 41 to 62 inches. The growing season, from April to September, receives an average of 32 inches or about 60% of the yearly total. The average length of the freeze-free growing season is approximately 200 days, although frosts can occur as early as October 19 and as late as April 20 (Stuck 1982:2, Table 2).

Mills remarked in 1826 that Carolina was similar to European climates, lying at a similar latitude. He noted that:

in comparing the climate of South Carolina, with similar climates in Europe, we find it lying under the same atmospheric influences with Aix, Rochelle, Montpelier, Lyons, Bordeaux, and other parts of France; with Milan, Turin, Padua, Mantua, and other parts of Italy (Mills 1972 [1826]:133).

The coastal region is a moderately high risk zone for tropical storms, with 169 hurricanes being documented from 1686 to 1972 (0.59 per year) (Mathews et al. 1980:56). One of the most devastating in the eighteenth century was the hurricane of September 15, 1752. One report listed 92 people drowned, although the death toll, especially among the African American slaves was likely much higher. The storm also had

considerable long-term effects and Calhoun notes that:

the destruction of trees was severe; one plantation owner's loss was assessed at \$50,000 and many of those trees which survived were "heart-shaken," and unfit for use. Crops were even more damaged as the storm followed a severe drought. It was necessary to enact laws to regulate the exportation and sale of corn, "Peafe," and small rice, so that "the poor may be able to purchase Provisions at a moderate Price" (Calhoun 1983:9).

Floristics

Speaking of the coastal plain Braun observed that:

the vegetation of this region is in part warm temperate-subtropical, in part distinctively coastal plain, and in part temperate deciduous. It is made up of widely different forest communities - coniferous, mixed coniferous and hardwood, deciduous hardwood, and mixed deciduous and broad-leaved evergreen hardwood - interrupted here and there by swamps, bogs, and prairies. The large number of unlike communities is related to the diverse environmental conditions of the region (Braun 1974:282)

Indeed, an examination of the region reveals tremendous diversity. Being within the Atlantic Coast Flatwoods, the predominant extant vegetation is pine, often a mixture of pond pine, longleaf pine, and slash pine, with oak, sweet bay magnolia, red bay, and sassafras in the

understory, especially in depressional or poorly drained areas. In the lowest areas, flooded for most of the year, the vegetation consists of cypress-tupelo swamps. On the fringe areas, where flooding is more seasonal, a range of somewhat drier species are found, including red maple and water elm, as well as cottonwood and sycamore. Understory in these areas consists of red bay, sweet-bay magnolia, and American elm (see Barry 1980).

Today much of the upland is either planted pines or a mixture of pines and hardwoods. The lowland area tends to be primarily hardwoods.

PREHISTORIC AND HISTORIC BACKGROUND

Previous Investigations

Colleton County has received relatively little archaeological attention. In fact, when Derting and his colleagues prepared the bibliography of archaeological literature in the early 1990s, there were only 24 listings for Colleton County (Derting et al. 1991:196-201). Of these 19, or nearly 80%, were associated with some sort of compliance study and 17 of the 19 were associated with highways construction activities. Wedged between far more prosperous counties to the northeast and southwest, Colleton had received relatively little investigation. That is still largely the case today.

The most recent large-scale investigation in Colleton is the 1995 architectural and historical survey of the county by The Jaeger Company (1995). This study, conducted over three years, identified 1288 sites for the county. Three of these sites (437-135, 536-541, and 536-542) were found within the 0.5 mile APE of the current project area.

Several smaller projects have also been conducted in the vicinity of Walterboro, near the current survey area. These include, for example, a survey for a gas pipeline (Baluha et al. 2001) and a survey of an access road to an industrial park (Trinkley 1999).

The Prehistoric

The Paleoindian period, lasting from 12,000 to 8,000 B.C., is evidenced by basally thinned, side-notched projectile points; fluted, lanceolate projectile points, side scrapers, end scrapers; and drills (Coe 1964; Michie 1977; Williams 1968). The Paleoindian occupation, while widespread, does not appear to have been intensive. Artifacts are most frequently found

along major river drainages, which Michie interprets to support the concept of an economy "oriented towards the exploitation of now extinct mega-fauna" (Michie 1977:124).

Unfortunately, little is known about Paleoindian subsistence strategies, settlement systems, or social organization. Generally, archaeologists agree that the Paleoindian groups were at a band level of society (see Service 1966), were nomadic, and were both hunters and foragers. While population density, based on the isolated finds, is thought to have been low, Walthall suggests that toward the end of the period, "there was an increase in population density and in territoriality and that a number of new resource areas were beginning to be exploited" (Walthall 1980:30).

The Archaic period, which dates from 8000 to 2000 B.C., does not form a sharp break with the Paleoindian period, but is a slow transition characterized by a modern climate and an increase in the diversity of material culture. Associated with this is a reliance on a broad spectrum of small mammals, although the white tailed deer was likely the most commonly exploited mammal. The chronology established by Coe (1964) for the North Carolina Piedmont may be applied with little modification to the South Carolina coastal plain and piedmont. Archaic period assemblages, exemplified by corner-notched and broad-stem projectile points, are fairly common, perhaps because the swamps and drainages offered especially attractive ecotones.

In the Coastal Plain of the South Carolina there is an increase in the quantity of Early Archaic remains, probably associated with an increase in population and associated increase in the intensity of occupation. While Hardaway and

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			Regional Phases		
Dates	Period	Sub-Period	COASTAL	MIDDLE SAVANNAH VALLEY	CENTRAL CAROLINA PIEDMONT
1715	HIST.	EARLY	Altamaha		Caraway
1650		LATE	Irene / Pee Dee	Rembert	
1100	MISS.	EARLY	Savannah	Hollywood	Dan River
				Lawton	Pee Dee
		LATE	St. Catherines / Swift Creek	Savannah	
800	WOODLAND				Uwharrie
A.D.			Wilmington	Sand Tempered Wilmington?	
B.C.		MIDDLE	Deptford	Deptford	Yadkin
300					
		EARLY		Refuge	Badin
1000	ARCHAIC			Thom's Creek	
		LATE		Stallings	
2000				Savannah River	
3000				Halifax	
		MIDDLE		Guilford	
				Morrow Mountain	
5000				Stanly	
		EARLY		Kirk	
8000				Palmer	
10,000	PALEOINDIAN			Hardaway	
				Hardaway - Dalton	
12,000			Cumberland	Clovis	Simpson

Figure 5. Generalized cultural sequence for South Carolina.

Dalton points are typically found as isolated specimens along riverine environments, remains from the following Palmer phase are not only more common, but are also found in both riverine and interriversine settings. Kirks are likewise common in the coastal plain (Goodyear et al. 1979).

The two primary Middle Archaic phases found in the coastal plain are the Morrow

Mountain and Guilford (the Stanly and Halifax complexes identified by Coe are rarely encountered). Our best information on the Middle Woodland comes from sites investigated west of the Appalachian Mountains, such as the work in the Little Tennessee River Valley. The work at Middle Archaic river valley sites, with their evidence of a diverse floral and faunal subsistence base, seems to stand in stark contrast to Caldwell's Middle Archaic "Old Quartz Industry"

of Georgia and South Carolina, where axes, choppers, and ground and polished stone tools are very rare.

The Late Archaic is characterized by the appearance of large, square stemmed Savannah River projectile points (Coe 1964). These people continued the intensive exploitation of the uplands much like earlier Archaic groups. The bulk of our data for this period, however, comes from work in the Uwharrie region of North Carolina.

The Woodland period begins by definition with the introduction of fired clay pottery about 2000 B.C. along the South Carolina coast (the introduction of pottery, and hence the beginning of the Woodland period, occurs much later in the Piedmont of South Carolina). It should be noted that many researchers call the period from about 2500 to 1000 B.C. the Late Archaic because of a perceived continuation of the Archaic lifestyle in spite of the manufacture of pottery. Regardless of terminology, the period from 2500 to 1000 B.C. is well documented on the South Carolina coast and is characterized by Stallings (fiber-tempered) pottery (see Figure 10 for a synopsis of Woodland phases and pottery designations). The subsistence economy during this early period was based primarily on deer hunting and fishing, with supplemental inclusions of small mammals, birds, reptiles, and shellfish.

Like the Stallings settlement pattern, Thom's Creek sites are found in a variety of environmental zones and take on several forms. Thom's Creek sites are found throughout the South Carolina Coastal Zone, Coastal Plain, and up to the Fall Line. The sites are found into the North Carolina Coastal Plain, but do not appear to extend southward into Georgia.

In the Coastal Plain drainage of the Savannah River there is a change of settlement, and probably subsistence, away from the riverine focus found in the Stallings Phase (Hanson 1982:13; Stoltman 1974:235-236). Thom's Creek

sites are more commonly found in the upland areas and lack evidence of intensive shellfish collection. In the Coastal Zone large, irregular shell middens, small, sparse shell middens; and large "shell rings" are found in the Thom's Creek settlement system.

The Deptford phase, which dates from 1100 B.C. to A.D. 600, is best characterized by fine to coarse sandy paste pottery with a check stamped surface treatment. The Deptford settlement pattern involves both coastal and inland sites.

Inland, sites such as 38AK228-W, 38LX5, 38RD60, and 38BM40 indicate the presence of an extensive Deptford occupation on the Fall Line and the Coastal Plain, although sandy, acidic soils preclude statements on the subsistence base (Anderson 1979; Ryan 1972; Trinkley 1980b). These interior or upland Deptford sites, however, are strongly associated with the swamp terrace edge, and this environment is productive not only in nut masts, but also in large mammals such as deer. Perhaps the best data concerning Deptford "base camps" comes from the Lewis-West site (38AK228-W), where evidence of abundant food remains, storage pit features, elaborate material culture, mortuary behavior, and craft specialization has been reported (Sassaman et al. 1990:96-98).

Throughout much of the Coastal Zone and Coastal Plain north of Charleston, a somewhat different cultural manifestation is observed, related to the "Northern Tradition" (e.g., Caldwell 1958). This recently identified assemblage has been termed Deep Creek and was first identified from northern North Carolina sites (Phelps 1983). The Deep Creek assemblage is characterized by pottery with medium to coarse sand inclusions and surface treatments of cord marking, fabric impressing, simple stamping, and net impressing. Much of this material has been previously designated as the Middle Woodland "Cape Fear" pottery originally typed by South (1976). The Deep Creek wares date from about 1000 B.C. to A.D. 1 in North Carolina, but may

date later in South Carolina. The Deep Creek settlement and subsistence systems are poorly known, but appear to be very similar to those identified with the Deptford phase.

The Deep Creek assemblage strongly resembles Deptford both typologically and temporally. It appears this northern tradition of cord and fabric impressions was introduced and gradually accepted by indigenous South Carolina populations. During this time some groups continued making only the older carved paddle-stamped pottery, while others mixed the two styles, and still others (and later all) made exclusively cord and fabric stamped wares.

The Middle Woodland in South Carolina is characterized by a pattern of settlement mobility and short-term occupation. On the southern coast it is associated with the Wilmington phase, while on the northern coast it is recognized by the presence of Hanover, McClellanville or Santee, and Mount Pleasant assemblages. The best data concerning Middle Woodland Coastal Zone assemblages comes from Phelps' (1983:32-33) work in North Carolina. Associated items include a small variety of the Roanoke Large Triangular points (Coe 1964:110-111), sandstone abraders, shell pendants, polished stone gorgets, celts, and woven marsh mats. Significantly, both primary inhumations and cremations are found.

On the Coastal Plain of South Carolina, researchers are finding evidence of a Middle Woodland Yadkin assemblage, best known from Coe's work at the Doerschuk site in North Carolina (Coe 1964:25-26). Yadkin pottery is characterized by a crushed quartz temper and cord marked, fabric impressed, and linear check stamped surface treatments. The Yadkin ceramics are associated with medium-sized triangular points, although Oliver (1981) suggests that a continuation of the Piedmont Stemmed Tradition to at least A.D. 300 coexisted with this Triangular Tradition. The Yadkin series in South Carolina was first observed by Ward (1978, 1983) from the White's Creek drainage in Marlboro County,

South Carolina. Since then, a large Yadkin village has been identified by DePratter at the Dunlap site (38DA66) in Darlington County, South Carolina (Chester DePratter, personal communication 1985) and Blanton et al. (1986) have excavated a small Yadkin site (38SU83) in Sumter County, South Carolina. Research at 38FL249 on the Roche Carolina tract in northern Florence County revealed an assemblage including Badin, Yadkin, and Wilmington wares (Trinkley et al. 1993:85-102). Anderson et al. (1982:299-302) offer additional typological assessments of the Yadkin wares in South Carolina.

Over the years the suggestion that Cape Fear might be replaced by such types as Deep Creek and Mount Pleasant has raised considerable controversy. Taylor, for example, rejects the use of the North Carolina types in favor of those developed by Anderson et al. (1982) from their work at Mattassee Lake in Berkeley County (Taylor 1984:80). Cable (1991) is even less generous in his denouncement of ceramic constructs developed nearly a decade ago, also favoring adoption of the Mattassee Lake typology and chronology. This construct, recognizing five phases (Deptford I - III, McClellanville, and Santee I), uses a type variety system.

Regardless of terminology, these Middle Woodland Coastal Plain and Coastal Zone phases continue the Early Woodland Deptford pattern of mobility. While sites are found all along the coast and inland to the Fall Line, shell midden sites evidence sparse shell and artifacts. Gone are the abundant shell tools, worked bone items, and clay balls. Recent investigations at Coastal Zone sites such as 38BU747 and 38BU1214, however, have provided some evidence of worked bone and shell items at Deptford phase middens (see Trinkley 1990).

In many respects the South Carolina Late Woodland may be characterized as a continuation of previous Middle Woodland cultural assemblages. While outside the Carolinas there were major cultural changes, such as the

continued development and elaboration of agriculture, the Carolina groups settled into a lifeway not appreciably different from that observed for the previous 500 to 700 years (cf. Sassaman et al. 1990:14-15). This situation would remain unchanged until the development of the South Appalachian Mississippian complex (see Ferguson 1971).

The South Appalachian Mississippian Period (ca. A.D. 1100 to 1640) is the most elaborate level of culture attained by the native inhabitants and is followed by cultural disintegration brought about largely by European disease. The period is characterized by complicated stamped pottery, complex social organization, agriculture, and the construction of temple mounds and ceremonial centers. The earliest phases include the Savannah and Pee Dee (A.D. 1200 to 1550).

Historic Overview

The English established the first permanent settlement in what is today South Carolina in 1670 on the west bank of the Ashley River. Like other European powers, the English were lured to the "new World" for reasons other than the acquisitions of land and promotion of agriculture. The Lords Proprietors, who owned the colony until 1719-1720, intended to discover a staple crop whose marketing would provide great wealth through the mercantile system.

By 1680 the settlers of Albermarle Point had moved their village across the bay to the tip of the peninsula formed by the Ashley and Cooper rivers — the area of modern-day Charleston.

The early settlers of the Carolina colony came from other mainland colonies, England, and the European continent. But the future of Carolina was largely directed by the large number of colonists from the English West Indies. This Caribbean connection has been discussed by Waterhouse (1975), who argues that the Caribbean immigrants were largely from old families of economic and political prominence

which formed the Barbados élite. Waterhouse observes that while elsewhere in the American colonies the early settled families were displaced from their established positions of power and economic superiority by newcomers, this did not occur in South Carolina. In Carolina:

a relatively large proportion of those who, in the middle of the eighteenth century, were among the wealthier inhabitants, were descended from those families who had arrived in the colony during the first twenty years of its settlement (Waterhouse 1975:280).

This immigration turned out to be a significant factor in the stability and longevity of South Carolina's colonial élite. It also firmly established the foundations of slavery and cash crop plantations.

In 1682 the first three Carolina counties — Berkeley, Colleton, and Craven — were created. This original Colleton County was far larger than the area known as Colleton today and included roughly the area between the Stone and Combahee rivers. This incorporated modern-day Dorchester County, as well as Edisto and Johns islands.

There seems to be little reliable information concerning the early settlement of Colleton, although there is general agreement that one settlement grew up around Jacksonboro on the Edisto River (known at the time as Pon Pon River). Another significant settlement was Willtown, situated about 8 miles south of Jacksonboro (and today outside of Colleton County). The Round O was an area initially used for cattle raising, although by 1700 it seems that rice was being planted (The Jaeger Company 1995:10).

Cattle raising was an easy way to exploit the region's land and resources, offering a relatively secure return for very little capital

investment. Few slaves were necessary to manage the herd. The mild climate of the low country made winter forage more abundant and winter shelters unnecessary. The salt marshes on the coast, useless for other purposes, provided excellent grazing and eliminated the need to provide salt licks. More interior swamps found similar vegetation and provided a constant water supply (Coon 1972; Dunbar 1961). Production of cattle, hogs, and sheep quickly outstripped local consumption and by the early eighteenth century beef and pork were principal exports of the Colony to the West Indies (Ver Steeg 1975:114-116). This allowed the ties between Carolina and the Caribbean to remain strong, and provided essential provisions to the large scale, single crop plantations.

Rice and indigo both competed for the attention of Carolina planters. Although introduced at least by the 1690s, rice did not become a significant staple crop until the early eighteenth century. At that time it not only provided the Proprietors with the economic base the mercantile system required, but it was also to form the basis of South Carolina's plantation system — slavery.

The Church Act of 1706 established two Anglican parishes in Colleton County — St. Bartholomew's and St. Paul's, with the former roughly encompassing what is today Colleton County.

Regardless of the progress of early settlement, by 1715 the Yemassee Indian initiated what was to develop into a major war that would leave the region largely uninhabited. Wallace, for example, suggests that the very low level of slave ownership in the area during the first quarter of the eighteenth century was the result of this war (Wallace 1934:I:309-310). The Jaeger Company (1995:10) notes that there were only about 379 residents in 1720, only 144 (about 38%) of whom were African American slaves.

As rice became a more important commodity during the early eighteenth century,

however, the complexion of Colleton County gradually changed. South Carolina's economic development during the pre-Revolutionary War period involved a complex web of interactions between slaves, planters, and merchants. By the close of the eighteenth century some South Carolina plantations had a ratio of slaves to whites that was 27:1 (Morgan 1977). And by the end of the century over half of eastern South Carolina's white population held slaves. With slavery came, to many, unbelievable wealth. Coclanis notes that:

on the eve of the American Revolution, the white population of the low country was by far the richest single group in British North America. With the area's wealth based largely on the expropriation by whites of the golden rice and blue dye produced by black slaves, the Carolina low country had by 1774 reached a level of aggregate wealth greater than that in many parts of the world even today. The evolution of Charleston, the center of the low-country civilization, reflected not only the growing wealth of the area but also its spirit and soul (Coclanis 1989:7).

Only certain areas of the low country, however, were suitable for rice production. During the early years rice was grown as an upland crop, in small fields adjacent to freshwater streams where water could be easily impounded and applied to the crop (Linder 1995:v, vii). By the early 1700s planters found that upland swamps, such as those in the Round O area, were even better suited for rice, although the soils were quickly exhausted (Meriwether 1940; Sellers 1934). These upland swamps, distinct from well-drained uplands, remained the focus of Carolina rice agriculture during the entire Colonial period.

Hewatt, writing in 1779, describes the

process of upland swamp rice cultivation:

after the planter has obtained his tract of land, and built a house upon it, he then begins to clear his field of that load of wood with which the land is covered. Having cleared his field, he next surrounds it with a wooded fence, to exclude all hogs, sheep, and cattle from it. This field he plants with rice . . . year after year, until the lands are exhausted, or yield not a crop sufficient to answer his expectations. Then it is forsaken, and a fresh spot of land is cleared and planted, with is also treated in like manner, and in succession forsaken and neglected (Hewatt 1836:514).

This rather simplistic commentary failed to observe the engineering feat that upland swamp rice cultivation really was. Clearing, which alone was a monumental undertaking, was followed by the construction of dams, dikes, and trenches. By one estimate, a 500 acre rice field required 60 miles of dikes and ditches (Gunn 1976:1-16). Fields were carefully leveled to ensure that they could be completely covered by water. Rice was planted during two periods – March 10 to April 10 and June 1 to June 10 – avoiding May since vast migrations of "rice birds" passed through the state during that period and could destroy a crop. Rice was harvested in late August.

During the eighteenth century the profits to be gained from rice were extraordinary, ranging from a 12% to nearly 28% net return on the investment, well exceeding other cash crops, such as tobacco or indigo (see Coclanis 1989:141). Slavery in the Colleton area swelled, accounting for more than 82% of the area's population in 1790. Charleston was the mecca around which the economic, political, and social world of Carolina revolved. Charleston provided the essential opportunity for conspicuous consumption, a

mechanism which allowed the display of wealth accumulated from the plantation system.

By the end of the eighteenth century, beginning of the nineteenth century, the rate of return on rice had been reduced, at best, to about 2%, and many years the rate of return was a staggering -3% to -7%. In 1859, just before the Civil War, the return is reported to have been -28%. As Coclanis observes:

the economy of the South Carolina low country collapsed in the nineteenth century. Collapse did not come suddenly - many feel, for example, that the area's "golden age" lasted until about 1820 - but come it did nonetheless. By the late nineteenth century it was clear that the forces responsible for the area's earlier dynamism had been routed, the dark victory of economic stagnation virtually complete (Coclanis 1989:111).

Colleton County saw several military engagements during the American Revolution. Perhaps best known is the Battle of Parker's Ferry, where General Francis Marion and his force of about 400 men stopped the advance of superior British forces under the command of Lieutenant Colonel de Borock and forced his retreat back to Charleston (The Jaeger Company 1995:14). In early 1782 Jacksonboro served as the capital of South Carolina, hosting the General Assembly. It was during this term that South Carolina elected a new governor and approved the various Amercement and Confiscation Acts aimed against British loyalists.

After the American Revolution the economy of the Colleton area, like elsewhere in the state, was in ruins and there was a very slow recovery – largely focused once again on rice cultivation and particularly the spread of tidal cultivation. The first census of St. Bartholomew in 1790 revealed a population of 12,606, with more

than 82% of those enumerated being African American slaves. Of the 538 heads of households in 1790, 311 or 58%, owned at least one slave.

The town of Walterboro was founded in 1783 by Paul and Jacob Walter and was chosen as a haven for those family members stricken with malaria. Soon, several coastal plantation owners joined them in calling Walterboro, or what was then known as simply the Ireland Creek settlement, as their summer home. By 1800, Walterboro had turned into a significant "pine-barren" resort, called so because of its wooded location and the timber fabricated cabins. It was named as the county seat of Colleton County in 1817, officially adopting the name Walterboro at this time. Not

more than a decade later, the town had grown to a summer population of 900, with over 450 full-time residents. The town grew slowly but steadily through the antebellum years, catering to the same plantation owners that founded the town in the summer months. Several businesses and industries developed to support the growing community and their tourist traffic including churches, restaurants, general stores, and government buildings.

The antebellum saw continued expansion of rice and continued accumulation of wealth by many planters. In fact, by 1860 Colleton District ranked second among South Carolina's 30 districts in rice production with 22.8 million pounds being produced (The Jaeger Company 1995:20). Mills commented that the district's rice lands were very productive, "yielding on an average two barrels, or 1400 pounds of rice to the acre" (Mills 1972 [1826]:505). Yet, with the decline

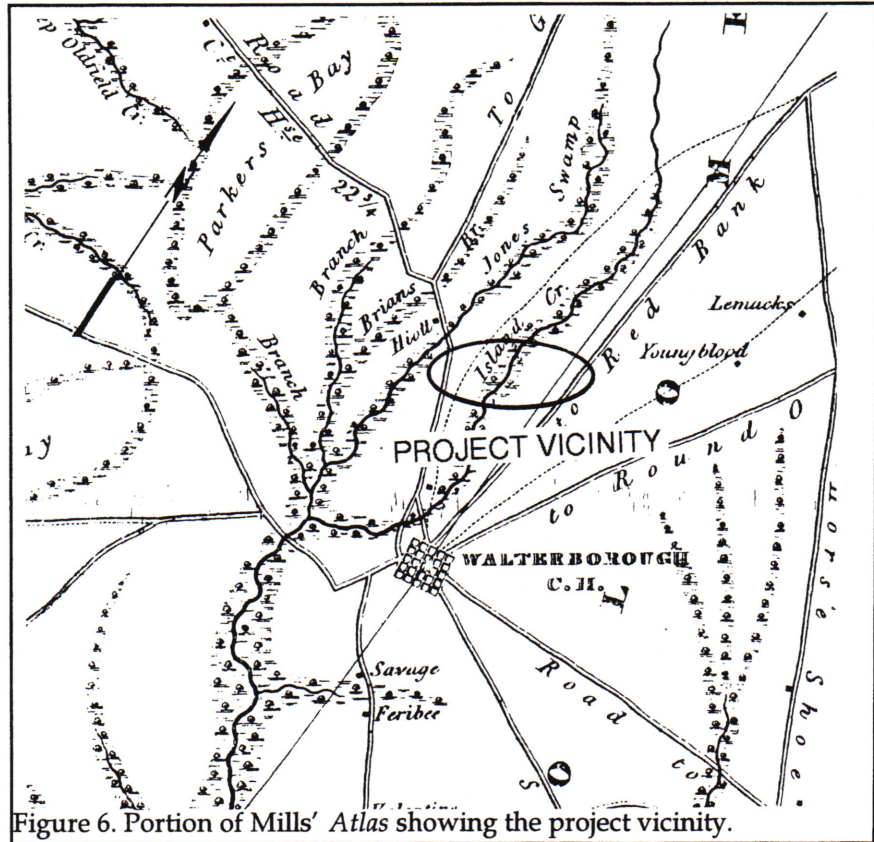


Figure 6. Portion of Mills' Atlas showing the project vicinity.

in the return offered by rice, there was an accompanied slow-down in the rise of slavery for the region (The Jaeger Company 1995:20).

Mills' Atlas for Colleton (Figure 6) reveals the growth of Walterboro. The road "to Red Bank" closely follows the modern course of S-21, while the road "to Round O" is today US 17A. Eberson Causeway is today the junction of S-41 and SC 64. The proposed corridor passes through a number of swamp and open areas, but does not seem to come very near any of Mills' subscribers. And, while Mills does note the presence of "Rice Land" further south on the west bank of the Ashepoo, none is shown in the project area.

Although rice was the dominant crop during the Antebellum, it was also a major producer of sweet potatoes (ranking fifth in 1840). Cotton production gradually increased from 1840 to 1860, as did both corn and rye production —

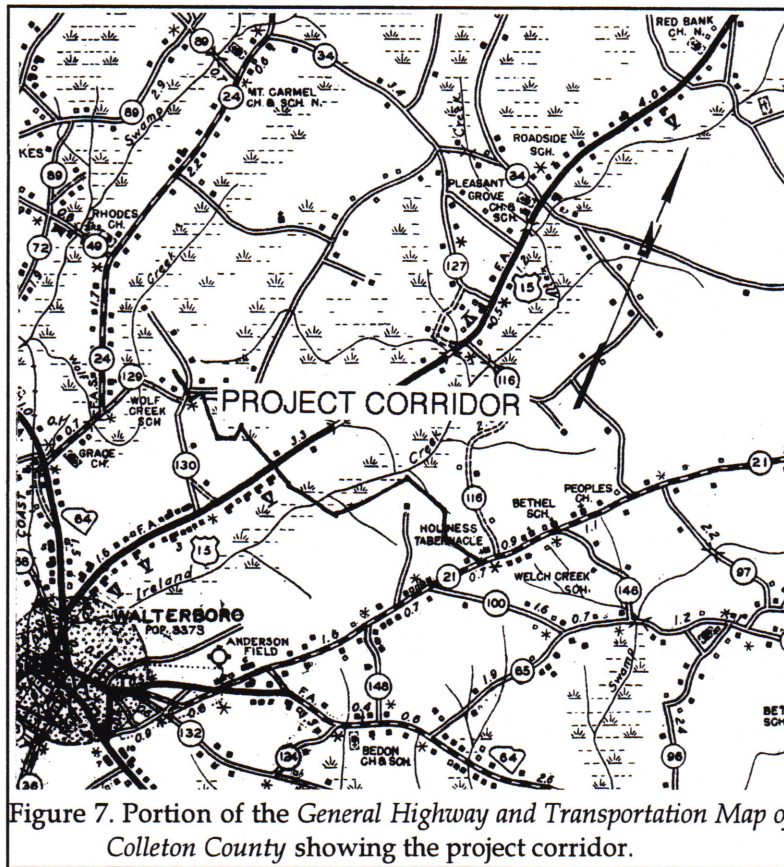


Figure 7. Portion of the *General Highway and Transportation Map of Colleton County* showing the project corridor.

although these crops were almost exclusively found north of Walterboro, where the soils tend to be higher and somewhat drier (The Jaeger Company 1995:23).

Colleton County's location and river system gave it strategic importance throughout the Civil War. The events are briefly recounted by the architectural survey of the county (The Jaeger Company 1995:25-26) and include battles, the construction of various defenses, and the abandonment of plantation houses throughout the area. Perhaps the single greatest effect of the Civil War, however, was the loss of the labor white plantation owners had relied on to make their rice fields profitable. So after the war the county's economy — like that throughout South Carolina — was in tatters.

The 1870 census reports that 91% of Colleton County farms were under 100 acres in

size, representing the breakup of many larger tracts and development of small farms, both owner-operated and tenant-operated.

The Jaeger Company (1995:28) points out that a total of 12,894.5 acres of Colleton County land was distributed by the South Carolina Land Commission — the second highest total of all South Carolina counties.

Although an effort was made to restore rice production to pre-war levels, this effort was doomed. Not only was there resistance among black laborers, but a series of devastating storms hit the South Carolina coast in 1893, 1898, 1910, and 1911. Moreover, rice production was being mechanized in states like Texas and Louisiana, providing competition that South Carolina rice growers were unprepared to meet.

A variety of alternatives were sought, for example phosphate and timber, although each produced income for a relatively few years before collapsing. The population of Walterboro increased dramatically during the Post-Reconstruction period. After the Civil War, Walterboro became a gathering place for deposed Ashepoo, Edisto and Combahee planters, growing from a population of 691 in 1880 to a booming business town and summer resort of 1,500 permanent residents in 1900. Its reputation as a peaceful, temperate vacation get-away was augmented by improved roadways and better rail accessibility. By the mid-1890s, Walterboro had the largest railway station on the line between Charleston and Savannah, bringing in rail tourists. Travelers on US Highway 17 and SC Route 30 also saw Walterboro as a convenient place to rest.

During the twentieth century the county weathered both the depression years and the

following boom in industrial growth. Throughout timber tended to be the one consistent and even today most the county's lands are in timber. Much of the timbering in the area south of Walterboro was conducted by the Walterboro Lumber Company, with its mill located in Thayer. This company, which operated at least into the 1920s, seems to have focused on the area between the Ashepoo River and Chessey Creek (Fetters 1990:153-155). Today most of the timber land is held by Westvaco.

Like many other areas in South Carolina, farming was hard hit by the Great Depression. The Jaeger Company (1995:35) notes that the number of Colleton farms dropped from 4,545 in 1910 to 2,944 by 1950, although this largely represents smaller farms being amalgamated (farm acreage dropped less, from 471,013 to 411,011 acres). During this same period, however, tenancy was reduced by about 50%, with the number of tenants dropping from 1,251 to 665.

Figure 7 reveals that by 1940 there was a network of roads leading to Walterboro and these roads were the major focus of settlement. There is little evidence of farms or settlements on the eastern portion of the survey corridor. Instead, settlement seems to have clustered along US 15. Much of the corridor, however, is shown as swamp land.

METHODS

Archaeological Field Methods

The initially proposed field techniques involved the placement of shovel tests at 100-foot intervals along the center line of the corridor, which was staked at the time of the survey. The substation would be surveyed at 100-foot intervals along four transects placed at 100-foot intervals.

All soil would be screened through ¼-inch mesh, with each test numbered sequentially by transect. Each test would measure about 1 foot square and would normally be taken to a depth of at least 1.0 foot or until subsoil was encountered. All cultural remains would be collected, except for mortar and brick, which would be quantitatively noted in the field and discarded. Notes would be maintained for profiles at any sites encountered.

Should sites (defined by the presence of three or more artifacts from either surface survey or shovel tests within a 50 foot area) be identified, further tests would be used to obtain data on site boundaries, artifact quantity and diversity, site integrity, and temporal affiliation. These tests would be placed at 25 to 50 feet intervals in a simple cruciform pattern until two consecutive negative shovel tests were encountered. The information required for completion of South Carolina Institute of Archaeology and Anthropology site forms would be collected and photographs would be taken, if warranted in the opinion of the field investigators.

These proposed techniques were implemented with no modifications. A total of 220 shovel tests were excavated along the center of the corridor. One-hundred and sixty additional tests were excavated for the sites.

The GPS positions were taken with a

Garmin GPS 76 rover that tracks up to twelve satellites, each with a separate channel that is continuously being read. The benefit of parallel channel receivers is their improved sensitivity and ability to obtain and hold a satellite lock in difficult situations, such as in forests or urban environments where signal obstruction is a frequent problem. This was a vital concern for the study area.

GPS accuracy is generally affected by a number of sources of potential error, including errors with satellite clocks, multipathing, and selective availability. Satellite clock errors can occur when the satellites' clock is off by as little as a millisecond, or when a slightly-askew orbit results in a distance error. Multipathing occurs when the signal bounces off trees, chain-link fences, or bodies of water. Multipathing was probably a significant source of error for this study since the site area was in a forest of pines and hardwoods. The source of most extreme GPS errors is selective availability (SA), the deliberate mistiming of satellite signals by the Department of Defense. This degradation results in horizontal errors of up to 100 m 95% of the time, although the error may be as much as 300 m. Nevertheless, selective availability has been turned off by the DOD. We have previously determined the 3D¹ and DGPS readings with the Garmin 76 were identical. Therefore, we relied on 3D navigation mode, with expected potential horizontal errors of 6 m or less.

¹A basic requirement for GPS position accuracy is having a lock on at least four satellites, which places the receiver in 3D mode. This is critical - as an example, positions calculated with less than four satellites can have horizontal errors in excess of a mile, or over 1,600 m.

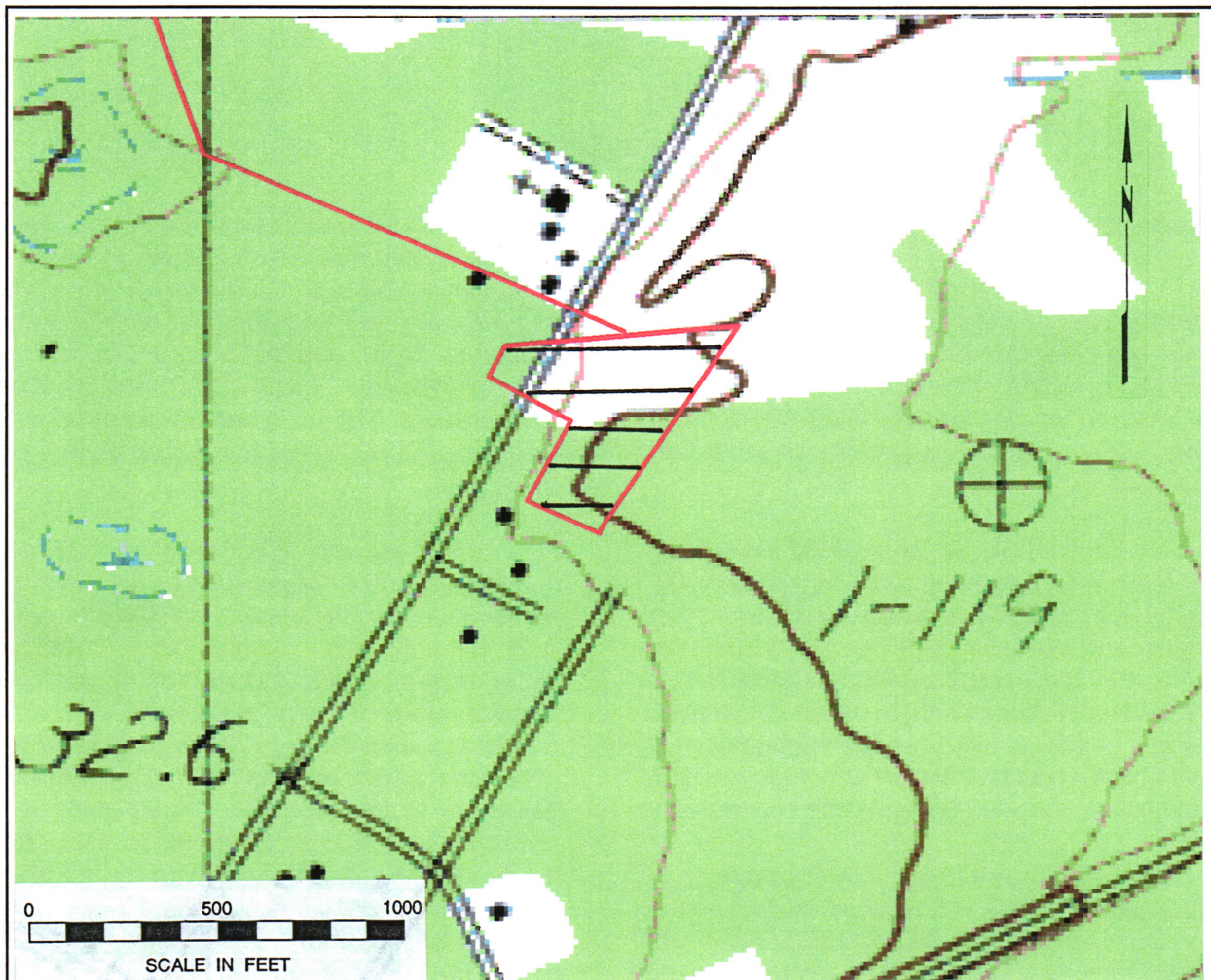


Figure 8. Substation with transects.

Architectural Survey

As previously discussed, we elected to use a 0.5 mile area of potential effect (APE). The architectural survey would record buildings, sites, structures, and objects which appeared to have been constructed before 1950. Typical of such projects, this survey recorded only those which have retained "some measure of its historic integrity" (Vivian n.d.:5) and which were visible from public roads.

For each identified resource we would complete a Statewide Survey Site Form and at least two representative photographs were taken.

Permanent control numbers would be assigned by the Survey Staff of the S.C. Department of Archives and History at the conclusion of the study. The Site Forms for the resources identified during this study would be submitted to the S.C. Department of Archives and History.

Site Evaluation

Archaeological sites will be evaluated for further work based on the eligibility criteria for the National Register of Historic Places. Chicora Foundation only provides an opinion of National Register eligibility and the final determination is made by the lead federal agency, in consultation

with the State Historic Preservation Officer at the South Carolina Department of Archives and History.

The criteria for eligibility to the National Register of Historic Places is described by 36CFR60.4, which states:

the quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and

a. that are associated with events that have made a significant contribution to the broad patterns of our history; or

b. that are associated with the lives of persons significant in our past; or

c. that embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

d. that have yielded, or may be likely to yield, information important in prehistory or history.

National Register Bulletin 36 (Townsend et al. 1993) provides an evaluative process that contains five steps for forming a clearly defined explicit rationale for either the site's eligibility or

lack of eligibility. Briefly, these steps are:

- identification of the site's data sets or categories of archaeological information such as ceramics, lithics, subsistence remains, architectural remains, or sub-surface features;

- identification of the historic context applicable to the site, providing a framework for the evaluative process;

- identification of the important research questions the site might be able to address, given the data sets and the context;

- evaluation of the site's archaeological integrity to ensure that the data sets were sufficiently well preserved to address the research questions; and

- identification of important research questions among all of those which might be asked and answered at the site.

This approach, of course, has been developed for use documenting eligibility of sites being actually nominated to the National Register of Historic Places where the evaluative process must stand alone, with relatively little reference to other documentation and where typically only one site is being considered. As a result, some aspects of the evaluative process have been summarized, but we have tried to focus on an archaeological site's ability to address significant research topics within the context of its available data sets.

For architectural sites the evaluative process was somewhat different. Given the relatively limited architectural data available for most of the properties, we focus on evaluating

these sites using National Register Criterion C, looking at the site's "distinctive characteristics." Key to this concept is the issue of integrity. This means that the property needs to have retained, essentially intact, its physical identity from the historic period.

(1996), Blanton et al. (1986), and Oliver et al. (1986).

Particular attention would be given to the integrity of design, workmanship, and materials. Design includes the organization of space, proportion, scale, technology, ornamentation, and materials. As *National Register Bulletin* 36 observes, "Recognizability of a property, or the ability of a property to convey its significance, depends largely upon the degree to which the design of the property is intact" (Townsend et al. 1993:18). Workmanship is evidence of the artisan's labor and skill and can apply to either the entire property or to specific features of the property. Finally, materials — the physical items used on and in the property — are "of paramount importance under Criterion C" (Townsend et al. 1993:19). Integrity here is reflected by maintenance of the original material and avoidance of replacement materials.

Laboratory Analysis

The cleaning and analysis of artifacts was conducted in Columbia at the Chicora Foundation laboratories. These materials have been catalogued and accessioned for curation at the South Carolina Institute of Archaeology and Anthropology, the closest regional repository. The site forms for the identified archaeological sites have been filed with the South Carolina Institute of Archaeology and Anthropology. Field notes and photographic materials have been prepared for curation using archival standards and will be transferred to that agency as soon as the project is complete.

Analysis of the collections followed professionally accepted standard with a level of intensity suitable to the quantity and quality of the remains. In general, the temporal, cultural, and typological classifications of prehistoric materials were defined by such authors as Yohe

RESULTS OF SURVEY

Introduction

The archaeological survey of the proposed transmission corridor revealed three sites, 38CN241-243. Site 38CN241 was determined potentially eligible while 38CN242 and 38CN243 have been determined not eligible (letter from Ms. Marta Mathews, S.C. Department of Archives and History, to Mr. Tommy Jackson, Central Electric Power Cooperative, dated October 22, 2003).

The architectural survey identified no additional sites which would be eligible for inclusion on the National Register of Historic Places beyond those already identified (437-135,

536-541, and 536-542) by the Jaeger Company (The Jaeger Company 1995; Chandler 1995).

Archaeological Resources

38CN241

Site 38CN241 is a surface and subsurface scatter of Early to Middle Woodland lithics and pottery. It is located on a ridge at an elevation of about 20 feet AMSL. A central UTM coordinate for the site is E534368 N3646060 (NAD27 datum).

Vegetation in the area consists of mixed pines and hardwoods, although the site is almost entirely located within a small area of grass. The

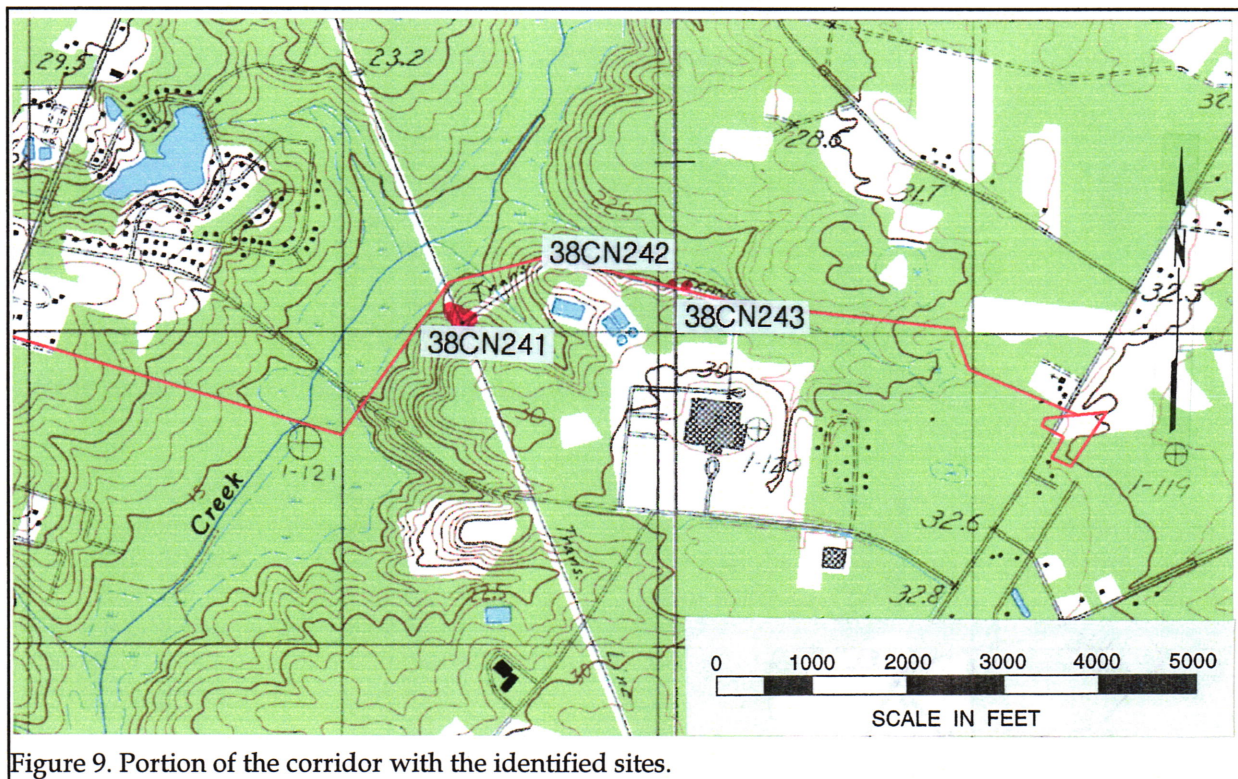


Figure 9. Portion of the corridor with the identified sites.

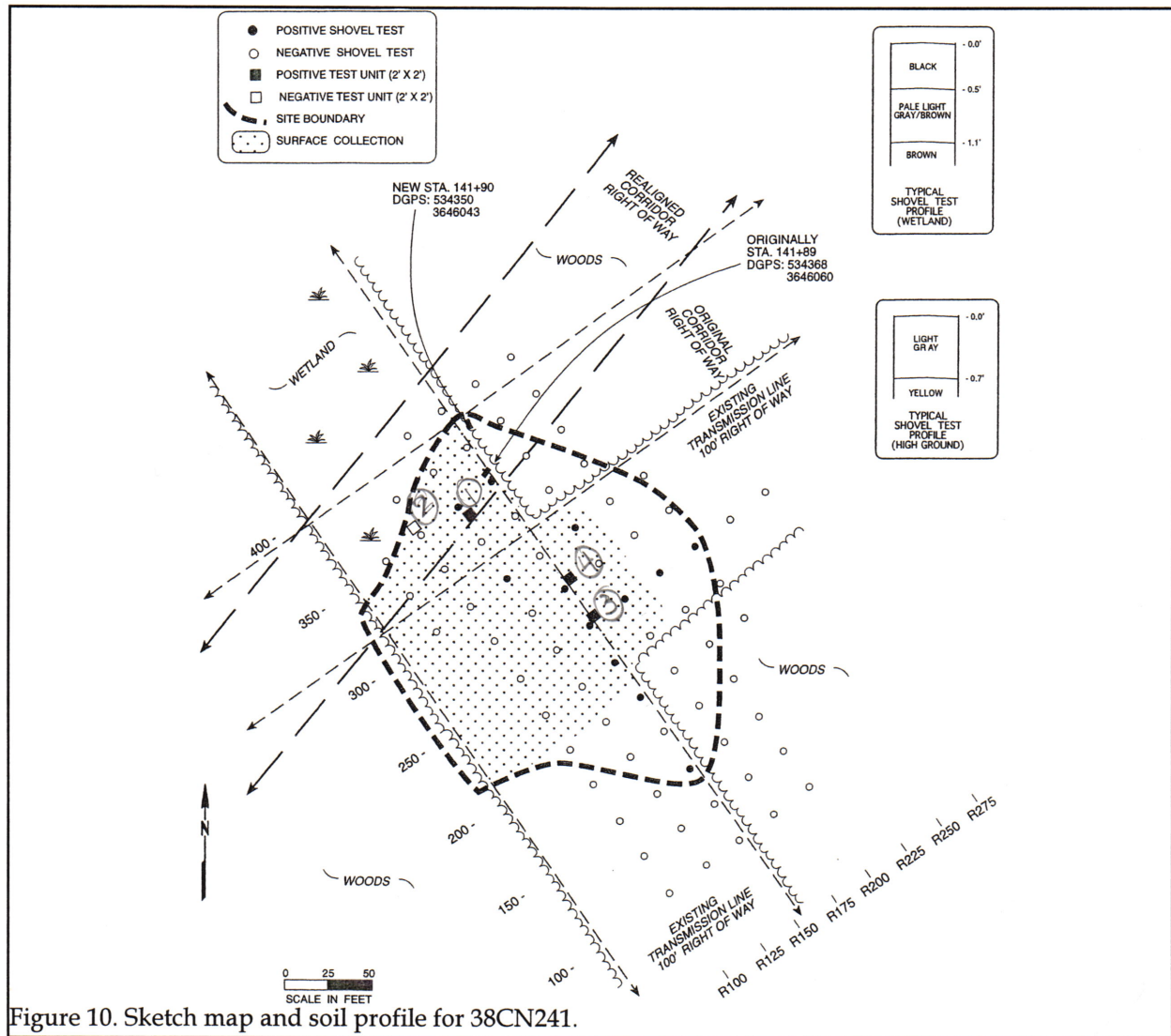


Figure 10. Sketch map and soil profile for 38CN241.

site borders a wetland of Ireland Creek, located about 800 feet to the north.

Shovel testing was performed at 100-foot intervals with the shovel test at Station 141+89 (350R150) along the original corridor positive. No positive shovel tests were found along the center line of the newly located corridor, however, two positive shovel tests (350R125 and 350R150) are still located within the 75-foot right-of-way. Close interval testing was performed at 50-foot intervals and revealed twelve additional positive tests (74 shovel tests have been excavated in the site vicinity). In addition, four two feet by two feet

units were excavated with three of the units producing artifacts.

Shovel tests in the area reveal Pickney soils. These soils are generally black (10YR2/1) loamy sand over 1.0 foot in depth and tend to be poorly drained. The tests on the higher ground tended to be a gray loamy sand to a depth of 0.8 foot over a yellow loamy sand. The relatively dark colors are the result of chemical reduction in the wet soils.

Table 1 shows the artifacts found at 38CN241 (shovel tests, test units, and surface

10 additional

DESCRIBE 4 UNITS
-PHOTO OF 4 UNITS

RESULTS OF SURVEY



Figure 11. View of 38CN241.

225 feet. This dispersion of cultural remains is likely the result of silvacultural/agricultural activities and documents site disturbance.

The data sets at 38CN241 include pottery (including Stallings, Refuge, and Deptford), and lithics (primarily chert flakes, although metavolcanic and extralocal materials are present). The shovel tests and test units failed to indicate the presence of subsurface features (i.e. no

TESTS TENDED TO BE SHALLOW

collections) and reveal a date from the Late Archaic to the Middle Woodland. Based on the positive shovel tests the site measures about 200 feet north-south by 100 feet east-west. The surface scatter of artifacts, however, is somewhat larger, reflecting boundaries of about 150 feet by

postholes or pits were encountered). The testing also failed to identify and/or floral or faunal remains, limiting the usefulness of the site for dating or subsistence studies. The tests also failed to reveal any clear stratigraphic separation of the prehistoric pottery sequences (which spans a

ARTIFACTS FROM TOP LAYER OF SOIL, NOTHING IN YELLOW

Table 1.
Artifacts recovered from 38CN241

	150R150	200R150	225R150	250R150	250R175	250R200	250R225	275R150	300R125	300R175	350R125	350R150	TU250R150	TU275R150	TU350R125	SURFACE	TOTAL
Sherd, Refuge Plain			1					2*					9			1	11
Sherd, Refuge Random Punctate				16									1			1	17
Sherd, Deptford Fabric Impressed													1			5	6
Sherd, Deptford Cord Marked															1	1	4
Sherd, Deptford Plain														2		1	2
Sherd, Stallings Plain									2			1					2
Sherd, small				6	1			6			4		41	1	6	15	80
Flake, siltstone	1	2					1									4	8
Flake, chert		1	2		1	4	1	2		2			1	2		8	24
Flake, used chert													1			1	1
Flake, metavolcanic														1			1
TOTAL	1	3	3	22	2	4	2	8	2	2	4	1	53	6	7	35	155

* Sherds mend

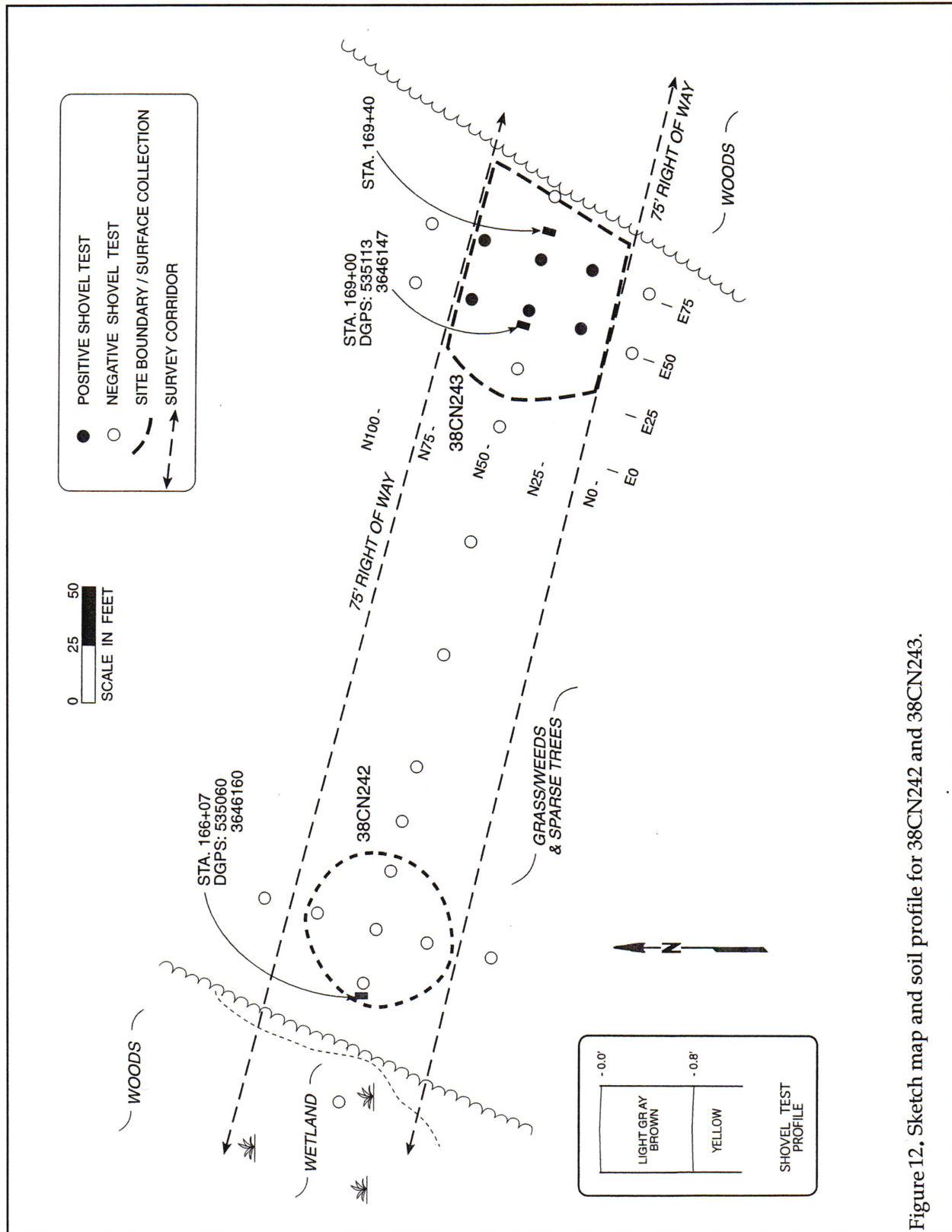


Figure 12. Sketch map and soil profile for 38CN242 and 38CN243.

period from ca. 2000 B.C. to A.D. 500).

Site integrity is also questionable. In spite of 74 shovel tests and four test units, the site failed to reveal clear stratigraphic context. The dispersion of artifacts suggests disturbance from silvacultural activities, as well as previous powerline construction and maintenance.

While the previously outlined prehistoric synthesis offers a generalized context for these Late Archaic to Middle Woodland remains and there are a variety of appropriate research questions (exploring the development of the various typological constructs, the changing subsistence base, evidence of seasonal rounds, the potential for transhumant occupations, and the acquisition and use of extralocal materials), this site lacks both the data sets and the integrity to allow the questions to be addressed in a meaningful manner.

As a result, we recommend the site not eligible for inclusion on the National Register of Historic Places. No additional management activities are recommended, pending the review and concurrence of the State Historic Preservation Office and the lead federal agency.

38CN242

Site 38CN242 consists of a small surface scatter of Early to Middle Woodland pottery. It is located on a ridge at an elevation of about 22.5 feet AMSL. A central UTM coordinate for the site is E535060 N3646160 (NAD27 datum).

Vegetation in the area consists of mixed pines and hardwoods, although the site is located on an open area of grass, adjacent to an area of wetland.

While shovel tests were

conducted at the proposed 100-foot intervals, this site was found during a surface investigation. Close interval testing at 50-foot intervals revealed no positive tests. The surface collection was found near Station 166+07.

Shovel tests in the area resemble Alpin fine sands. These soils have an Ap horizon of grayish brown (10YR5/2) fine sand to a depth of 0.5 foot over a light yellowish brown (10YR6/4) fine sand to 2.3 feet in depth.

The surface artifacts found were four Refuge Random Punctate sherds, five Wilmington Fabric Impressed sherds, and ten small unidentifiable sherds. These sherds date from the Early to Middle Woodland. The site boundary, based on the surface collection, is 50 feet north-south by 50 feet east-west.

While these sherds were temporally diagnostic, no subsurface features or artifacts

Table 2.
Artifacts found at 38CN243

	N25E50	N25E75	N50E50	N50E75	N75E50	N75E75	Surface	TOTAL
Sherd, Deptford Check Stamped					1		3	4
Sherd, Deptford Plain			1					1
Sherd, Deptford Plain, rim							1	1
Sherd, Deptford Simple Stamped			1					1
Sherd, Refuge Simple Stamped							2	2
Sherd, Refuge Plain		2						2
Sherd, small unidentifiable	1		1	1		2	3	8
Flake, siltstone				1				1
Projectile Point, Deptford Stemmed, chert							1	1
TOTAL	1	2	3	2	1	2	10	21

were found during close interval shovel testing. This suggests low site integrity. In addition, the data sets are limited to ceramics and are not able to address significant research questions. 38CN242 has been determined not eligible for the National Register of Historic Places. No additional management activities are recommended pending review by the State Historic Preservation Office.

38CN243

Site 38CN243 consists of a surface and subsurface scatter of Early to Middle Woodland lithics and pottery. It is located on a ridge at an elevation of about 22.5 feet AMSL. A central UTM coordinate for the site is E535113 N3646147 (NAD27 datum).

The site is situated in an area of grass, although a forest of mixed pines and hardwoods are found in the general area. The site is located about 400 feet east of the wetlands produced by Ireland Creek.

Shovel testing was performed at 100-foot intervals with the shovel test at Station 169+00 positive. Close interval testing was performed at 25-foot intervals and revealed five additional positive tests (out of 11) -- all within the proposed corridor.

Shovel tests reveal profiles consistent with Alpin fine sands. We found an Ap horizon of grayish brown (10YR5/2) fine sand to a depth of 0.5 foot over a light yellowish brown (10YR6/4) fine sand to

2.3 feet in depth.

Table 2 shows the artifacts found at 38CN243 all date from the Early to Middle Woodland period. The single projectile point, a chert Deptford Stemmed (see Trinkley 1980), measures 35.21 mm in length, 22.63 mm in width at the base, and 8.08 mm in thickness. The stem measures 7.75 mm in width.

The site area measures approximately 75 feet east-west by 50 feet north-south.

While temporally diagnostic artifacts were found, the data sets are limited to pottery and lithics, all in an Ap context. We failed to identify any concentrations of materials that might represent plowed out features. We also failed to identify either faunal or floral remains. Given the low diversity and questionable context it is unlikely that the site can address significant research questions. This site has been determined not eligible for the National Register. No additional management activities are recommended pending review by the State



Figure 13. View of 536-541.

Historic Preservation Office.

Architectural Resources

The original survey by the Jaeger Company (1995) recorded three structures (437-135, 536-541, and 536-542) within the APE of the current project. These structures were determined not eligible for the National Register of Historic Places.

Structure 437-0135 is a ca. 1910 building. No site form was found for this structure and the current field survey failed to identify the building.

Structure 536-541 is a ca. 1900 house. This field survey found this house to be destroyed, however, the rubble remains were still present (Figure 13).

Structure 536-542 is a ca. 1860 house. This house is in slightly worse condition than when it was originally recorded. Portions of the roof have collapsed and the metal porch roof is breaking off (Figure 14). We concur with the original determination of not eligible for the National Register.

No additional structures were found beyond those already identified which would be potentially eligible for the National Register.



Figure 14. View of 536-542.

CONCLUSIONS

This study involved the examination of 4.0 miles of corridor and a one acre substation in central Colleton County, South Carolina. The tract is proposed for the use of a transmission line. This report, conducted for Mr. Tommy Jackson of Central Electric Power Cooperative, provides the results of the investigation and is intended to assist the company comply with their historic preservation responsibilities.

As a result of this investigation three archaeological sites, 38CN241-243, were identified within the study corridor. All three sites exhibit Early to Middle Woodland artifacts, while 38CN241 also has a Late Archaic component, but none of these sites appear to contain the data sets necessary to be able to address significant research questions. Site 38CN241 is recommended not eligible for the National Register of Historic Places. Sites 38CN242 and 38CN243 have already been determined not eligible for the National Register.

The surrounding areas are growing in population with several structures near the project area. Nevertheless, an APE 0.5 mile

around the project area was examined, but no historic structures were identified which are intact and which appear to be potentially eligible for inclusion on the National Register of Historic Places. The structures originally identified in a 1992-1995 survey by the Jaeger Company were reassessed with 437-135, a ca. 1910 building not found, 536-541, a ca. 1900 house destroyed, and 536-542 still recommended not eligible for the National Register.

It is possible that archaeological remains may be encountered in the area during construction. As always, the utility's contractors should be advised to report any discoveries of concentrations of artifacts (such as bottles, ceramics, or projectile points) or brick rubble to the project engineer, who should in turn report the material to the State Historic Preservation Office, or Chicora Foundation (the process of dealing with late discoveries is discussed in 36CFR800.13(b)(3)). No further land altering activities should take place in the vicinity of these discoveries until they have been examined by an archaeologist and, if necessary, have been processed according to 36CFR800.13(b)(3).

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